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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 10/699,330 10/31/2003 Paul A. Kohl 062020-1540 2552 24504 7590 08/17/2004 EXAMINER THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP LE, HOA VAN 100 GALLERIA PARKWAY, NW ART UNIT STE 1750 PAPER NUMBER ATLANTA, GA 30339-5948 1752

DATE MAILED: 08/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	A
	10/699,330	KOHL ET AL.	√ ± 5
	Examiner	Art Unit	
	Hoa V. Le	1752	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet wi	th the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a re ply within the statutory minimum of thirt d will apply and will expire SIX (6) MON te, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this comm ANDONED (35 U.S.C. & 133)	unication.
Status			
1) Responsive to communication(s) filed on	·		
2a) ☐ This action is FINAL . 2b) ☐ Thi	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	_		erits is
Disposition of Claims			
4) □ Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) 1-31 are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct			121/4)
11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Apportty documents have been and (PCT Rule 17.2(a)).	oplication No received in this National Sta	ge
Attachment(s)) Notice of References Cited (PTO-892)	4) [] Interview 0	Immory (PTO 442)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152 	2)
Patent and Trademody Office			

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This application is up for consideration.

- Claims 1-31 are generic to a plurality of disclosed patentably distinct species A.1. comprising many possible compositions (1) decomposes at a temperature range from about 100 to 120°C, (2) decomposes at a temperature range from about 125 to 200°C and (3) decomposes at a temperature range from about 100 to 120°C and leaves no solid residue either from the polymer or the PAG, (4) decomposes at a temperature range from about 100 to 120°C after exposure to ultraviolet (UV) radiation, (5) adhesive and (6) positive tone sacrificial material as broadly disclosed in the art. Applicant is required under 35 U.S.C. 121 to elect a single disclosed composition species for an initiation of a search, even though this requirement is traversed. Applicants is further requested and required to additionally provide all ingredient chemical structures and their ranges of amounts --- such as 0.5 to 70.0 wt%--- of all chemical ingredient in the elected composition for a precise consideration and search by clearly and precisely disclosing (*) all bonding connections between and among chemical atoms and (**) positions of all chemical atoms in all ingredient chemical structure of the elected composition species to show the difference and distinction of the elected composition from all of others as claimed. No further examining process will be made unit all requests and requirements are met. It is now notified for the record.
- 2. Claims 1-31 are generic to a plurality of disclosed patentably distinct species comprising many possible sacrificial polymers as broadly disclosed in the art. Applicant is required under 35 U.S.C. 121 to elect a single disclosed polymer species for an

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initiation of a search, even though this requirement is traversed. Applicants is further requested and required to additionally provide (+) the elected polymer chemical structure for a precise consideration and search by clearly and precisely disclosing (*) all bonding connections between and among chemical atoms and (**) positions of all chemical atoms in elected polymer chemical structure repeating unit species and (++) number of repeating unit monomer ---such as 50-1,000--- for the difference and distinction property elected polymer from all of others as claimed. No further examining process will be made unit all requests and requirements are met. It is now notified for the record.

- 3. Claims 1-31 are generic to a plurality of disclosed patentably distinct species comprising many possible photoacid generators as broadly disclosed in the art. Applicant is required under 35 U.S.C. 121 to elect a single disclosed photoacid generator species for an initiation of a search, even though this requirement is traversed. Applicants is further requested and required to additionally provide the elected photoacid generator chemical structure for a precise consideration and search by clearly and precisely disclosing (*) all bonding connections between and among chemical atoms and (**) positions of all chemical atoms in elected photoacid generator chemical structure species for the difference and distinction property elected photoacid generator from all of others as claimed. No further examining process will be made unit all requests and requirements are met. It is now notified for the record.
- 4. Claims 1-31 are generic to a plurality of disclosed patentably distinct species comprising many possible polymers as broadly disclosed in the art. Applicant is required under 35 U.S.C. 121 to elect a single disclosed polymer species for an initiation of a search, even though this requirement is traversed. Applicants is further requested and

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required to additionally provide (+) the elected polymer chemical structure for a precise consideration and search by clearly and precisely disclosing (*) all bonding connections between and among chemical atoms and (**) positions of all chemical atoms in elected polymer chemical structure species and (++) number of repeating unit monomer ---such as 50-1,000--- for the difference and distinction property elected polymer from all of others as claimed. No further examining process will be made unit all requests and requirements are met. It is now notified for the record.

5. Claims 1-31 are generic to a plurality of disclosed patentably distinct species comprising many possible negative tone photoinitiators as broadly disclosed in the art. Applicant is required under 35 U.S.C. 121 to elect a single disclosed photoinitiator species for an initiation of a search, even though this requirement is traversed. Applicants is further requested and required to additionally provide the elected initiator chemical structure for a precise consideration and search by clearly and precisely disclosing (*) all bonding connections between and among chemical atoms and (**) positions of all chemical atoms in elected photoinitiator chemical structure species for the difference and distinction property elected photoinitiator from all of others including photoacid generators as claimed. No further examining process will be made unit all requests and requirements are met. It is now notified for the record.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the

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prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

B. Claims 2, 3, 4, 5, 6 and 7 are all depended on claim 1 and would have no value if they are found to be overly read on property of another claim. A double inclusion claimed embodiment is structurally invalid by itself because they are not distinct from another as required. It is now notified for the record.

Claim 4 containing "PAG" abbreviation alone is improper. The abbreviation alone is not considered. Although an embodiment in a claim is read in light of the specification, the claim must be self-supported where it is possible. Applicant are requested and required to take time and effort to spell it out. No allowance of the claim will be indicated until a proper correction is made. It is now clearly pointed out, set forth and notified for the record.

- C. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-13, drawn to a mater, ((classified in class ---, subclass ---) will be later indicated, considered and searched in accordance with the elected property as clearly set forth in "A.1" above.
 - II. Claims 14-16, drawn to another patentably and distinct matter than that inGroup I above, classified in class 252, at least subclass 600.
 - III. Group claims (17-25) and (36-31) (with claim 17 being broadest (They are not considered to be patentably different or distinct. Therefore, separate

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consideration or search will be made. Accordingly no restrict is also made. Should applicants disagree, urge show or provide otherwise in the next response to this Office action in order for it to be considered timely, a restriction will be made for the cord as shown or urged by applicants.), class 430, at least subclass 320+

The inventions of Groups I and II are all related to the materials but have the patentably different and distinct embodiments and have acquired the separate status and searches in the art and can be supported the separate patents as divided by applicants and have no evidence on the record that is not required the separate consideration and search since they are the obvious variants because the prior art being applied to one of them would be sufficient against all inventions, restriction for examination purposes as indicated is proper. Applicant should show or provide an evidence to the contrary. In the absence of convincing evidence, the restriction would not be removed.

Inventions of Groups (I and II) and Group III related fabricating a structure but it is using a matter in a process of use and not making the matter. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the matter as claimed can be used in a materially different process such as a binding two objects together and using no exposing or removing steps as claimed. Applicant should show or provide an evidence to the

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contrary. An argument alone is not a factual evidence has and may be given a little to no value. In the absence of convincing evidence, the restriction would not be removed.

Because these inventions are distinct for the reasons given above and have acquired the separate status and searches in the art and can be supported the separate patents as divided by applicants and have no evidence of the record that are not required the separate consideration and search since they are the obvious variants because the prior art being applied to one of them would be sufficient against all inventions, restriction for examination purposes as indicated is proper. Applicant should show or provide an evidence to the contrary. In the absence of convincing evidence, the restriction would not be removed.

- D. An additional consideration or search for more than one invention, class or subclass in the art is burdensome, lacks of focus on many and all issues in the claimed inventions and dilutes patentability of many and all issues in many inventions than those in one. Applicant should show or provide an evidence to the contrary. In the absence of convincing evidence, the restriction would not be removed.
- E. Applicant is advised that the reply to this requirement to be complete must include full elections and requirements as set forth on the record to be examined even though the requirement be traversed (37 CFR 1.143).
- F. However any process claim is permitted to be rejoined with a material claim

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provided (a) that the material claim is allowable and (b) the process claim must be contained all of the limitations of the allowable material claim in accordance with the authority stated in In re Ochiai, 37 USPQ2d 1127 or In re Brouwer, 37 USPQ2d 1663 and MPEP 821.04.

- G. Applicant is advised that the reply to this requirement to be complete must include full elections and requirements as clearly pointed out and set forth on the record to be examined even though the requirement be traversed (37 CFR 1.143).
- H. Other issues have not been considered until full elections and requirements are met and resolved.
- I. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoa V. Le whose telephone number is 571-272-1332. The examiner can normally be reached from 6:30 AM to 4:30 PM on Monday though Thursday and about the same time of most Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526.

Applicants may file a paper by (1) fax with a central facsimile receiving number 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hoa V. Le Primary Examiner Art Unit 1752

HVL 11 August 2004 HOA VAN LE PRIMARY EXAMINER